



Atty. Dkt. No. 079328-0105

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: A. Robin POOLE  
Title: PRODUCTS FOR REGULATING THE DEGRADATION OF COLLAGEN  
AND METHODS FOR IDENTIFYING SAME  
Appl. No.: 10/674,065  
Filing Date: 09/30/2003  
Examiner: Unknown  
Art Unit: 1642

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98. Copies of H. Klippel et al. (2001), Hollander A.P. et al. (1994b), R.C. et al. (1997) and Visconti et al. (1996), which are described in the specification, could not be located in time for this filing, but will be submitted as soon as possible.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.



**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

The relevance of the documents are described in the present specification.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date April 30, 2004

By Stephen B. Maebius

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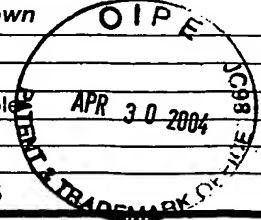
Stephen B. Maebius

Attorney for Applicant

Registration No. 35,264

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: April 30, 2004 <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/674,065</td> </tr> <tr> <td>Filing Date</td> <td>09/30/2003</td> </tr> <tr> <td>First Named Inventor</td> <td>A. Robin Poole</td> </tr> <tr> <td>Group Art Unit</td> <td>1642</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> <tr> <td>Attorney Docket Number</td> <td>079328-0105</td> </tr> </table>		Application Number	10/674,065	Filing Date	09/30/2003	First Named Inventor	A. Robin Poole	Group Art Unit	1642	Examiner Name	Unknown	Attorney Docket Number	079328-0105
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A1		WO 94/14070	A1	Shriner's Hospital for Crippled Children	06/23/1994		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A2	Akizuki, S. <i>et al.</i> , <i>J. Orthop. Res.</i> 4:379-92 (1986)	
	A3	B. Henderson, J.C.W. Edwards, and E.R. Pettipher (ed.): <i>Mechanisms and Models in Rheumatoid Arthritis</i> , pp. 163-204, London, Academic Press, 1995	
	A4	Billinghurst, R.C. <i>et al.</i> <i>J. Clin. Invest</i> 99(7):1534-1545 (1997)	
	A5	Borden, P. <i>et al.</i> , <i>J. Biol. Chem.</i> 271:23577-81 (1996);	
	A6	Chomczynski, P. <i>et al.</i> , <i>Anal. Biochem.</i> 162:156-9 (1987))	
	A7	Dahlberg, L. <i>et al.</i> , <i>Arthritis Rheum.</i> 43(3):673-82 (2000)	

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	A8	Dodge, G.R. and Poole, A.R., <i>J. Clin. Invest.</i> 83(2):647-61 (1989)	
	A9	Eyre, D.R. <i>et al.</i> , <i>J. Rheumatol. Suppl.</i> 27:49-51 (1991)	
	A10	Freemont, A.J. <i>et al.</i> , <i>Ann. Rheum. Dis.</i> 56:542-9 (1997)	
	A11	Goldring, M.B. <i>Arthritis Rheum.</i> 43:1916-1926 (2000)	
	A12	Guilak F. <i>et al.</i> , <i>J. Orthop. Res.</i> 12(4):474-84 (1994)	
	A13	Hollander, A.P. <i>et al.</i> , <i>J. Clin. Invest.</i> 96:2859-69 (1995)	
	A14	Hollander, A.P. <i>et al.</i> , <i>J. Clin. Invest.</i> 93:1722-32 (1994)	
	A15	Jennings, L. <i>et al.</i> , <i>Connect. Tissue Res.</i> 42(1):71-86 (2001)	
	A16	Kammermann, J.R. <i>et al.</i> , <i>Osteoarthritis Cartilage</i> 4:23-34 (1996);	
	A17	Kempson, G.E. <i>et al.</i> , <i>Biochim. Biophys. Acta.</i> 297:456-72 (1973)	

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	A18	Knowlton, R.G. <i>et al.</i> , <i>New Engl. J. Med.</i> 322(8):526-30 (1990)	
	A19	Koopman WJ, (ed): <i>Arthritis and Allied Conditions: A Textbook of Rheumatology</i> , 14 <sup>th</sup> Edition, pp. 187-208, Lippincott, Williams & Wilkins, Philadelphia, 2001	
	A20	MacNaul, N.K. <i>et al.</i> , <i>J. Biol. Chem.</i> 265:17238-17245 (1990)	
	A21	Mayne R. <i>et al.</i> , <i>J. Biol. Chem.</i> 276(15):12212-12221 (2001)	
	A22	Mitchell, P.G. <i>et al.</i> , <i>J. Clin. Invest.</i> 97:761-768 (1996)	
	A23	Nelson, F. <i>et al.</i> <i>J. Clin. Invest.</i> 102:2115-25 (1998)	
	A24	Poole, A.R. <i>et al.</i> , <i>Acta Orthop. Scand. Suppl.</i> 266:88-91 (1995)	
	A25	Poole, A.R. <i>et al.</i> , <i>Clin. Orthop.</i> 391:S26-33 (2001)	
	A26	R.W. Moskowitz <i>et al.</i> (ed): <i>Osteoarthritis: Diagnosis and Medical Surgical Management</i> , 3 <sup>rd</sup> Edition, pp. 29-47	

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	A27	Reboul, P. <i>et al.</i> , <i>Arthritis Rheum.</i> 44:73-84 (2001)	
	A28	Ritvaniemi, P. <i>et al.</i> , <i>Arthritis Rheum.</i> 38(7):999-1004 (1995)	
	A29	Royce, P.M., Steinmann, B. (ed): <i>Connective Tissue and its Heritable Disorders. Molecular, Genetic and Medical Aspects</i> , pp. 103-147, New York, Wiley-Liss, 1993	
	A30	Setton, L.A. <i>et al.</i> , <i>J. Orthop. Res.</i> 4:451-63 (1994)	
	A31	Shlopov, B.V. <i>et al.</i> , <i>Arthritis Rheum.</i> 40:2065-74 (1997)	
	A32	Shlopov, B.V. <i>et al.</i> , <i>Arthritis Rheum.</i> 43:195-205 (2000)	
	A33	<i>Sustained and Controlled Release Drug Delivery Systems</i> , J.R. Robinson, ed., Marcel Dekker, Inc., New York, 1978.	
	A34	W.J. Koopman (ed.): <i>Arthritis and Allied Conditions: A Textbook of Rheumatology</i> , 14 <sup>th</sup> Ed., Vol. 1., pp. 226-284	
	A35	Wu, W. <i>et al.</i> , <i>Arthritis Rheumatism</i> , 46:2087-2094 (2002)	

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